

**DOGGR Aquifer Exemption Request
Completeness Check**

Date EPA received AE request:

DOGGR Permit #:

DOGGR Contact (name and phone number/e-mail):

| General Information | Submitted and complete? (If incomplete, describe information needed) | |
|--|---|----|
| Owner/operator name | | |
| Well/project name | | |
| API number(s) | | |
| Well Class (and subtype) | | |
| Purpose of Injection | | |
| Where is the proposed aquifer exemption located? | | |
| Township, Section, Range, Quarter | | |
| Latitude and longitude Information | | |
| County and City | | |
| Information about distance to nearest Town and/or County | | |
| Name of the aquifer or portion of the aquifer to be exempted | | |
| Areal extent of the area proposed for exemption | | |
| Depth and thickness of the aquifer | | |
| Information on the TDS content of the aquifer, including the TDS at the top and bottom of the exempted zone, and the locations and depths of all fluid samples taken | | |
| Substantial or non-substantial? | | |
| Describe the basis for substantial/non-substantial determination | | |
| Did DOGRR provide public notice and opportunity for public hearing on the AE request? (40 CFR 144.7) | | |
| Were there any public comments? | | |
| If so, where are these public comments located? | | |
| Dates of public notices published | | |
| Dates of public meetings held | | |
| Dates of hearings held | | |
| Were there any notable findings or pending litigation? | | |
| Description of the notice and comment process and the state's final decision | | |
| Basis for the decision to exempt the aquifer or withhold or deny the request | | |
| Any anticipated issues associated with EPA approval or disapproval of the AE request? | | |
| Any meetings between EPA/State/Tribes/Operator to discuss issues. If so, dates of those meetings. | | |
| | Yes | No |
| Water disposal wells into sub-3,000 TDS? | | |
| Water disposal wells into 3,000-10,000 TDS aquifers? | | |
| Enhanced oil recovery into hydrocarbon-bearing, sub-3,000 TDS aquifers? | | |
| Enhanced oil recovery into 3,000-10,000 TDS aquifers? | | |

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Regulatory Criteria for Class II wells: 146.4(a) + 146.4(b)(1)

Information to support a demonstration that the aquifer or portion thereof does not currently serve as a source of drinking water per 40 CFR 146.4(a)

| 40 CFR 146.4(a) Criteria | Submitted and complete? (If incomplete, describe information needed) |
|---|---|
| How the proposed exempted area was determined | |
| Lithology | |
| Permeability and porosity | |
| Direction of groundwater flow | |
| Upper and lower confining zone(s) and description of vertical confinement from USDWs | |
| Oil or mineral production history | |
| Information on drinking water wells for which the aquifer might be a source of drinking water | |
| Maps of the area, geology, and hydrogeology | |
| Table of inventoried water wells with owner information, purpose, depth, name of aquifer, well completion, age, and data source | |
| Map showing down-gradient and hydraulically connected water wells | |
| How ground water direction and speed were determined | |
| SWPAs and designated sole source aquifers | |
| Size of the area evaluated and rationale for determining the size | |
| Information on the capture zone of wells in the area | |
| How the lifetime of the well was determined | |

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Information to support a demonstration that the aquifer or portion thereof cannot now and will not be used as a source of drinking water in the future because it is mineral, hydrocarbon or geothermal energy producing per 40 CFR 146.4(b)(1)

Did the permit applicant for a Class II operation demonstrate as part of the permit application that the aquifer or portion thereof contains minerals or hydrocarbons that, considering their quantity and location are expected to be commercially producible? The items below reflect the data necessary to make the demonstration as required by 40 CFR 144.7(c)(1) and (2).

| 146.4(b)(1) Criteria | Submitted and complete? (If incomplete, describe information needed) |
|--|---|
| Narrative statement | |
| Logs and core data | |
| Maps | |
| Data | |
| State issued permit | |
| Information on previous hydrocarbon production (commercial producibility is presumed) or production history of converted production wells or other wells in the vicinity | |
| Formation description, depth, thickness and permeability or porosity (new Class II wells) | |
| Drill stem tests | |
| Project description | |
| If CBI is an issue, R&D project results | |